Figure 1

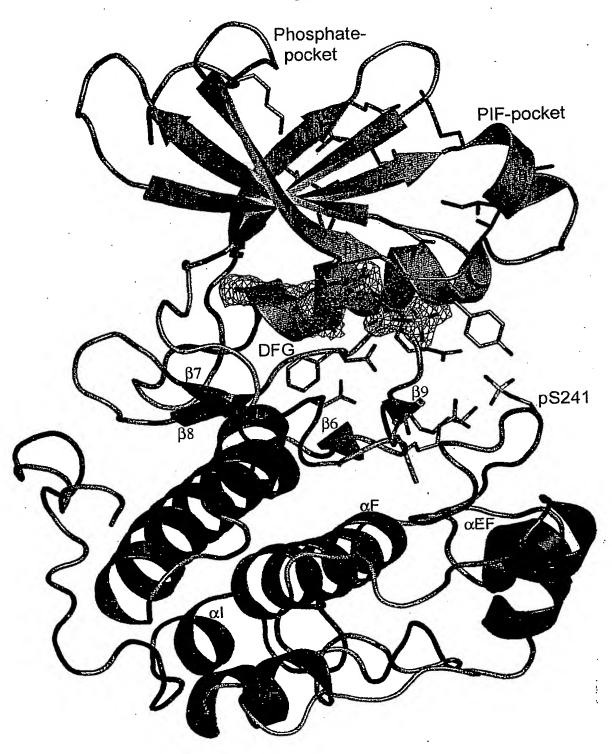
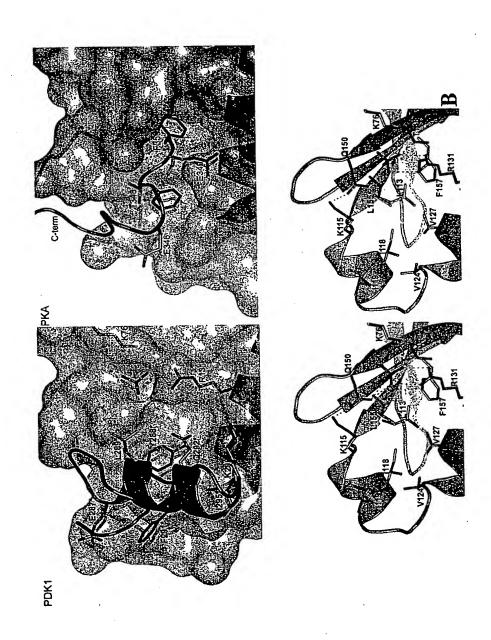
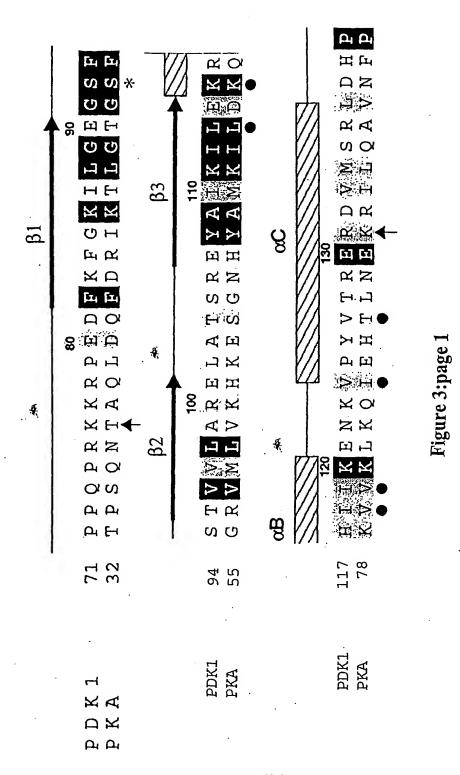


Figure 2



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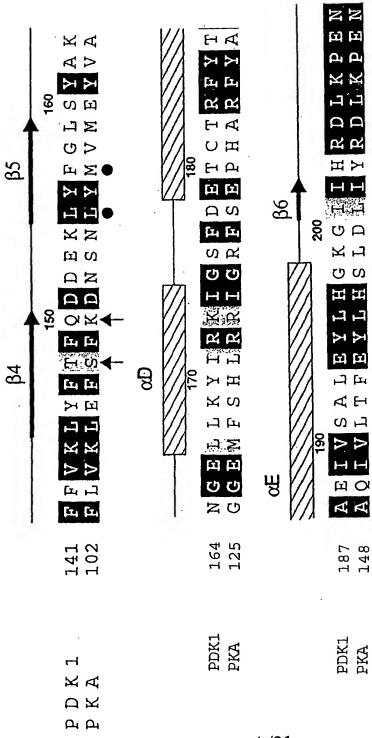


Figure 3 page 2

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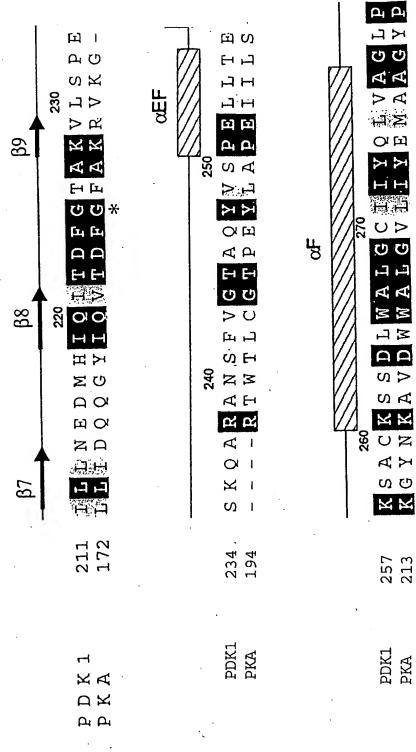
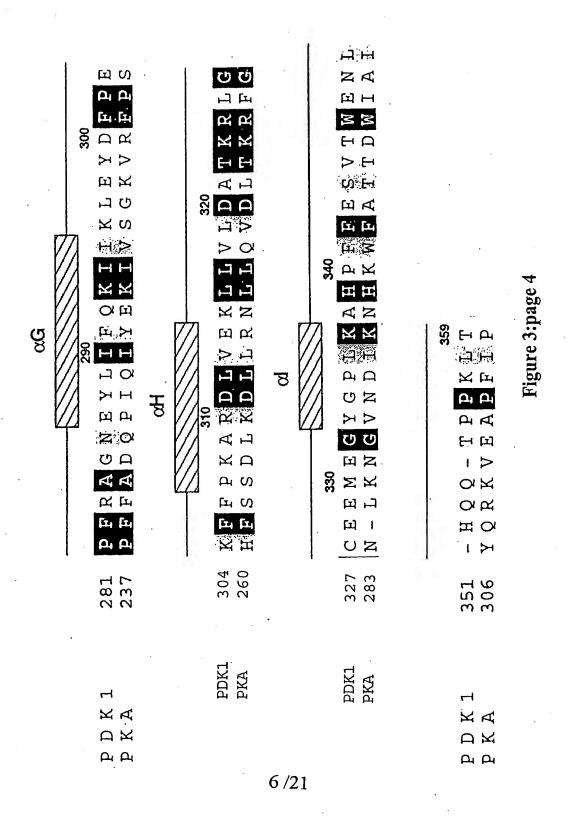


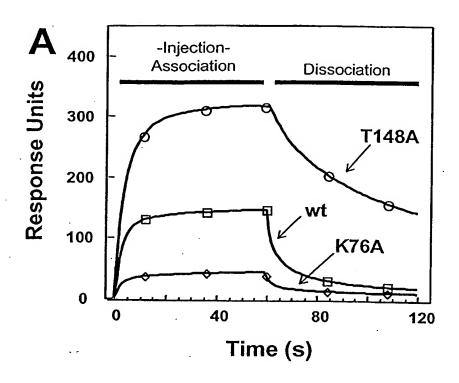
Figure 3:page 3

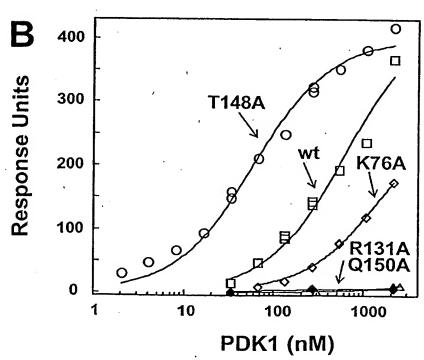
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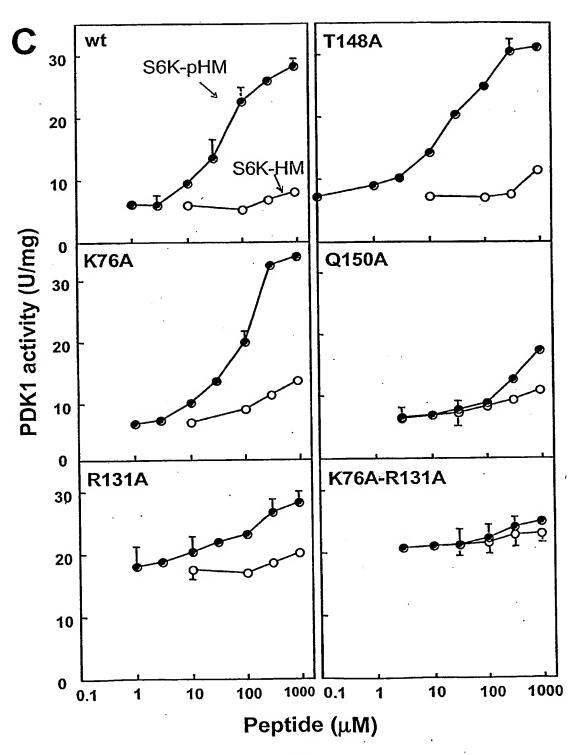
Figure 4: page 1 --





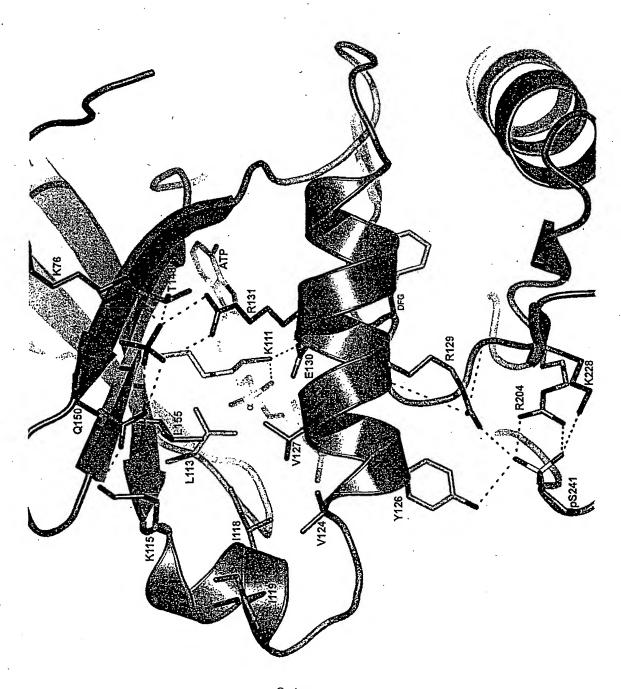
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Figure 4: page 2

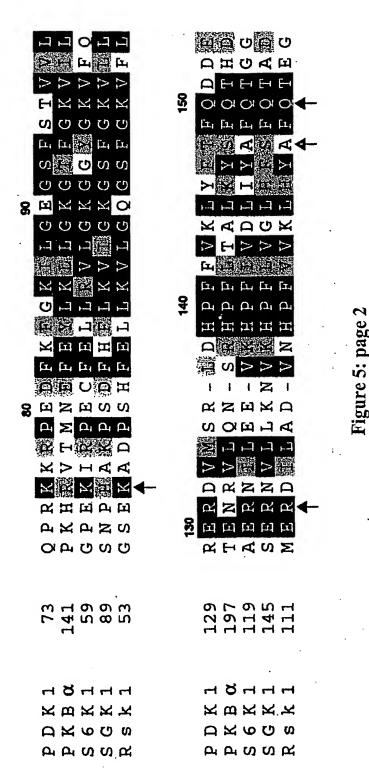


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Figure 5:page 1

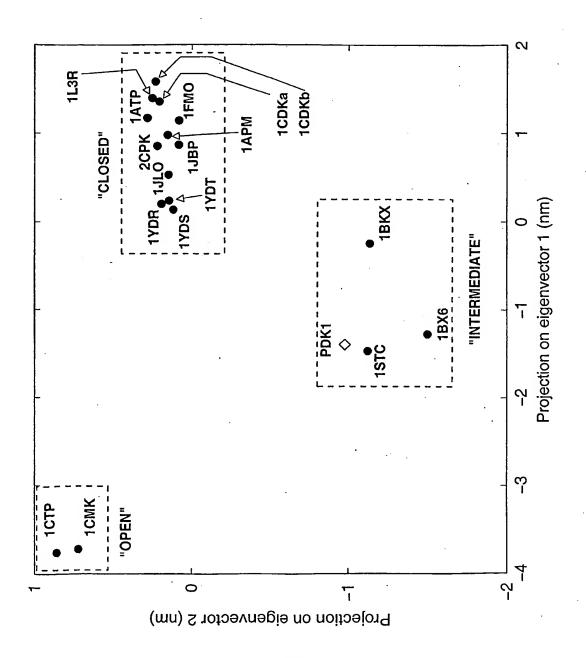


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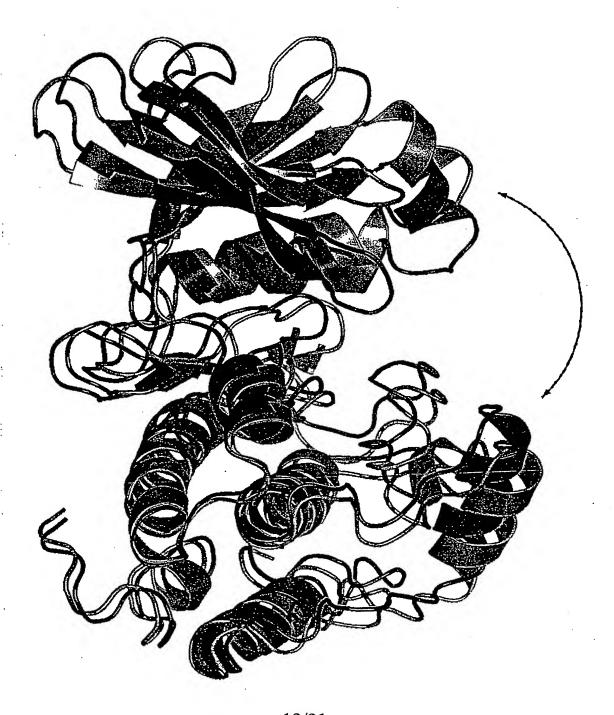
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Figure 6: page 1



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Figure 6: page 2



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Figure 7: page 1 KVLLAKRK----SDGAFYAVKVLQKKSILKKKEQS-HIMAERSVLLKN--VRHP----FL KVMLSERK----GTDELYAVKILKKDVVIQDDDVE-CTWVEKRVLALP--GKPP----FL {VMLADRK----GTEELYAIKILKKDVVIQDDDVE-CTMVEKRVLALL--DKPP----FL KVMLAERR---GSDELYAIKILKKDVIVQDDDVD-CTLVEKRVLALG--GRGPGGRPHFL KVLLVRLK---KNDQIYAMKVVKKELVHDDEDID-WVQTEKHVFEQA--SSNP---KULLVRLK---KTDRIYAMKVVKKELVNDDEDID-WVQTEKHVFEQA--SNHP--TVVLAREL---ATSREYAIKILEKRHIIKENKVP-YVTRERDVMSRL---DHP-KVLLAKRK---LDGKFYAVKVLQKKIVLNRKEQK-HIMAERNVLLKN--VKHP-KVLLSEFR----PSGELFAIKALKKGDIVARDEVE-SLMCEKRILAAVTSAGHP-KVFLVRKISGHDTGKLYAMKVLKKATIVQKAKTTEHTRTERQVLEHIR--QSP-KVFLVRKAGGHDAGKLYAMKVLRKAALVQRAKTQEHTRTERSVLELVR--QAP-KVLLARHK---ABEVFYAVKVLQKKAILKKKBEK-HIMSERNVLLKN--VKHP KVLLGELK---GRGEYSAIKALKKDVVLIDDDVE-CTMVEKRVLTLAA--ENP RVMLVRHQ---ETGGHYAMKILNKQKVVKMKQVE-HILNEKRILQAI---DFP KVILVREK---ASGKYYAMKILKKEVIIAKDEVA-HTLTESRVLKNT---RHP KVLLAEYK----NTNEMFAIKALKKGDIVARDEVD-SLMCEKRIFETVNSVRHP KVMLSERK---GTDELYAVKILKKDVVIQDDDVE-CTMVEKRVLALP--GKPP KVFLVRKVKGSDAGQLYAMKVLKKATLKVRDRVR--SKMERDILAEVN--H-P KVILVKEK---ATGRYYAMKILKKEVIVAKDEVA-HTLTENRVLONS---RHP KVILVREK---ATGRYYAMKILRKEVIIAKDEVA-HTVTESRVLQNT---RHP KVFQVRKVTGANTGKIFAMKVLKKAMIVRNAKDTAHTKAERNILEEVK--H-P KVFLVKKISGSDARQLYAMKVLKKATLKVRDRVR--TKMERDILVEVN--H-P KVFQVRKVQGTNLGKIYAMKVLRKAKIVRNAKDTAHTRAERNILESVK--H-P KVFLVKKISGSDARQLYAMKVLKKATLKVRDRVR--TKMERDILVEVN--H-P 355 355 108 352 364 807 257 165 628 163 161 p70S6Kalpha p70S6Kbeta PKCbetaII PKCdelta **PKAgamma** PKCgamma **PKCalpha** PKBalpha PKBgamma PKCiota PKCzeta PKCbeta PKBbeta P90RSK2 p90RSK3 p90RSK1 MSK2 PRK2 SGK3 SGK2 PRK1 SGK1 MSK1

Figure 7: page 2 VKLQFSFKDNSYLYLVMEYVPGGEMFSRLQRVGRFSEPHACFYAAQVVLAVQYLHS-LDL VGLHSCFQTTSRLFLVIEYVNGGDLMFHMQRQRKLPEEHARFYAAEICIALNFLHE-RGI VGLHSCFQTESRLFFVIEYVNGGDLMFHMQRQRKLPEEHARFYSAEISLALNYLHE-RGI THLICTFQTKDHLFFVMEFLNGGDLMYHIQDKGRFELYRATFYAAEIMCGLQELHS-KGI VKLYFTFQDDEKLYFGLSYAKNGELLKYIRKIGSFDETCTRFYTAEIVSALEYLHG-KGI TQLHSTFQTPDRLYFVMEYVTGGDLMYHIQQLGKFKEPHAAFYAAEIAIGLFFLHN-QGI TQLHSCFQTMDRLYFVMEYVNGGDLMYHIQQVGRFKEPHAVFYAAEIAIGLFFLQS-KGI TQLHSCFQTMDRLYFVMEYVNGGDLMYHIQQVGRFKEPHAVFYAAEIAIGLFFLQS-KGI TQLHSCFQTVDRLYFVMEYVNGGDLMYHIQQVGKFKEPQAVFYAAEISIGLFFLHK-RGI VGLRYSFQTPEKLYFVLDYVNGGELFFHLQRERRFLEPRARFYAAEVASAIGYLHS-LNI VELAYAFQTGGKLYLILECLSGGELFTHLEREGIFLEDTACFYLAEITLALGHLHS-QGI VKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELALALDHLHS-LGI VKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELALALDHLHS-LGI VKLHYAFQTEGKLYLILDFLRGGDLFTRLSKEVMFTEEDVKFYLAELALALDHLHS-LGI VTLHYAFQTETKLHLILDYINGGELFTHLSQRERFTEHEVQIYVGEIVLALEHLHK-LGI VTLHYAFQTDAKLHLILDYVSGGEMFTHLYQRQYFKEAEVRVYGGEIVLALEHLHK-LGI TALKYSFQTHDRLCFVMEYANGGELFFHLSRERVFSEDRARFYGAEIVSALDYLHSEKNV TALKYAFQTHDRLCFVMEYANGGELFFHLSRERVFTEERARFYGAEIVSALEYLHS-RDV VGLHFSFQTADKLYFVLDYINGGELFYHLQRERCFLEPRAŘFYAAEIASALGYLHS-LNI VGLHYSFQTTEKLYFVLDFVNGGELFFHLQRERSFPEHRARFYAAEIASALGYLHS-IKI TSLKYSFQTKDRLCFVMEYVNGGELFFHLSRERVFSEDRTRFYGAEIVSALDYLHS-GKI VNLFGCFQTPEHVCFVMEYSAGGDLMLHIHSD-VFSEPRAIFYSACVVLGLQFLHE-HKI VDLIYAFQTGGKLYLILEYLSGGELFMQLEREGIFMEDTACFYLAEISMALGHLHQ-KGI VNLFACFQTKEHVCFVMEYAAGGDLMMHIHTD-VFSEPRAVFYAACVVLGLQYLHE-HK] J Leu 155 160 157 619 157 83 209 211 p70S6Kalpha p70S6Kbeta PKCbetall PKCalpha PKCgamma PKCdelta PKAgamma PKBgamma PKBalpha PKCiota PKCzeta PKCbeta PKBbeta p90RSK2 p90RSK1 p90RSK3 MSK2 PRK2 SGK3 SGK2 MSK1 PRK1 SGK1

Figure 7: page 3

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215	204	190	190	181	174	142	271	272	268	737	779	219	216	216	463	463	460	477	365	366	470	164	202
p70S6Kalpha	p70S6Kbeta	p90RSK1	p90RSK2	p90RSK3	MSK1	MSK2	PKBalpha	PKBbeta	PKBgamma	PRK1	PRK2	SGK1	SGK3	SGK2	PKCbeta	PKCbetall	PKCalpha	PKCgamma	PKCzeta	PKCiota	PKCdelta	PKAgamma	PDK1

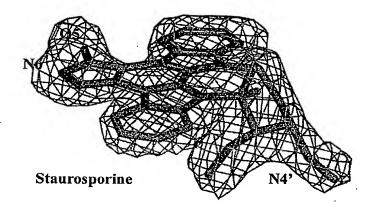
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HNRAVDWWSLGALMYDMLTGAPPFTGE HNRAVDWWSLGALMYDMLTGSPPFTAE HTQSADWWSFGVLMFEMLTGTLPFQGK HTQSADWWSFGVLMFEMLTGTLPFQGK HTQSADWWSLGVLMYELLTGASPFTUBG HDKAVDWWSLGVLMYELLTGASPFTVDG HGKAVDWWGLGVVMYEMMCGRLPFYNQD YGRAVDWWGLGVVMYEMMCGRLPFYNQD YGRAVDWWGLGVVLYEMLYGESPFPGDD YTRAVDWWGLGVLIYEMLYGLPFYNQD YTRAVDWWCLGAVLYEMLYGLPFYSRN YDRTVDWWCLGAVLYEMLYGLPFYSRN YDRTVDWWCLGAVLYEMLYGLPFYSQD YGKSVDWWAFGVLLYEMLAGQAPFEGED YGKSVDWWAFGVLLYEMLAGQAPFEGED YGKSVDWWAFGVLLYEMLAGQPPFDGED YGKSVDWWALGVLMFEMMAGQSPFFDGED YGFSVDWWALGVLMFEMMAGRSPFDIIT	YTFSVDWWSFGVLLYEMLIGQSPFHGDD-YNKAVDWWALGVLIYEMAVGFPPFYADQ-ACKSSDLWALGCIIYQLVAGLPPFRAGN-
220 230 230 230 230 230 230 230 230 230	525 216 259
p70S6Kalpha p70S6Kbeta p90RSK1 p90RSK1 mSK1 MSK1 MSK2 PKBalpha PKBgamma PKBgamma PKBgamma PKC2 SGK1 SGK3 SGK3 SGK2 PKCbeta PKCbeta PKCalpha PKCalpha	PKCdelta PKAgamma PDK1

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p70S6Kalpha p70S6Kbeta	p90RSK1 p90RSK2	p90RSK3 MSK1	MSK2	PKBalpha	PKBbeta	PKBgamma	PRK1	PRK2	17/	SGK3		PKCbeta	PKCbetaII	PKCalpha	PKCgamma	PKCzeta	PKCiota	PKCdelta	PKAgamma	• 1

Figure 7: page 5

Figure 7: nage 6																							
Figure 7: page 6																							
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EDWSOFDSKFFROTEMSDDSTLSESA	EDVSQFDTRFTRQTPVDSPDDTALSESA-	EDTFYFDPEFTAKTPKDSP-GIPPSANA-	EDTFYFDPEFTAKTPKDSP-GIPPSANA-	EDTFHFDPEFTARTPTDSP-GVPPSANA-	LDVSNFAEEFTEMDPTYSPAALPQSSE-	LDVGNFAEEFTRLEPVYSPPGSPPGDP-	TDTRYFDEEFTAQMITITPPDQDDSMECVDSERRPHFPQFSYSASSTA-	VDTRYFDDEFTAQSITITPPDRYDSLGLLELDQRTHFPQFSYSASIRE-	TDTRYFDEEFTAQTITITPPEKYDE	TDVSNFDEEFTGEAPTLSP	EDVSNFDDEFTSEAPILTPPREPR-ILSEEEQEMFRDFDYIADWC	NDLRHFDPEFTEEPVPNSIGKSPDSVLVTASVKEAAEAFLGFSYAPPT-DSFL	DDIRNFDTAFTEETVPYSVCVSSDYSIVN	ADLKHFDPEFTQEAVSKSIGCTPDTVAS-	1	RNAENFDRFFTRHPPVLTPPDQEVIR-	KGAENFDKFFTRGQPVLTPPDQLVIA-	RSGENFDKFFTRAAPALTPPDRLVLA-	YGLDNFDTQFTSEPVQLTPDDEDAIK	FGLDNFDSQFTNEPVQLTPDDDDDIVR-	RDYSNFDQEFLNEKARLSYSDKNLID-	GDASNFDDYEE-EELRISINEK-CA	EDCYGNYDNLLSQFGCMQVSSSSSHSLSASDTGLPQRSGSNIEQYIHDLDSNSFELDLQ
377	366	352	352	343	343	310	433	434	430	899	941	380	377	377	625	. 624	621	638	535	538	628	323	370
n70c6Kalnha	p70S6Kbeta	p90RSK1	p90RSK2	p90RSK3	MSK1	MSK2	PKBalpha	PKBbeta	PKBgamma	PRK1	PRK2	SGK1	SGK3	SGK2	PKCbeta	PKCbetaII	PKCalpha	PKCgamma	PKCzeta	PKCiota	PKCdelta	PKAgamma	PDK1

Figure 8



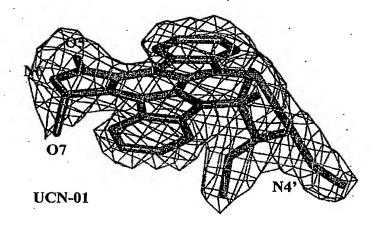
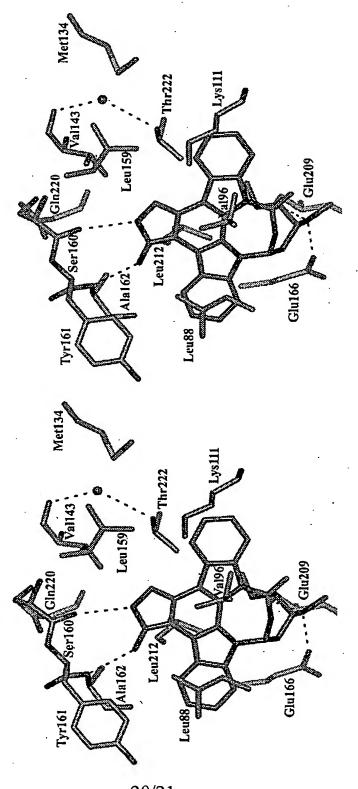
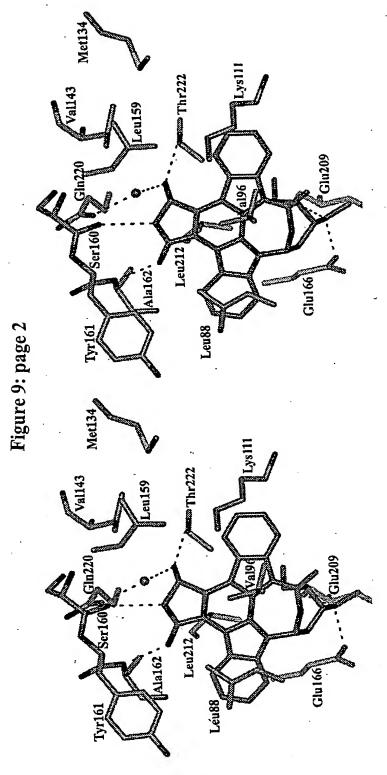


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